Bulletin of Biological and Allied Sciences Research ISSN: 2521-0092 www.bbasr.org DOI: https://doi.org/10.64013/bbasr.v2025i1.103 Bull. Biol. All. Sci. Res., Volume, 10: 103 Method Article



## Supplementary material

## **Electropherogram of positive control**



**Figure S 1: Electropherogram of a DF508 Normal (Wild-Type) CFTR Sample** This electropherogram illustrates the results of the optimized Sanger sequencing-based capillary electrophoresis (CE) assay, showing the absence of the DF508 mutation in a wild-type CFTR sample.



**Figure S 2: Electropherogram of a DF508 Homozygous CFTR Sample:** This electropherogram demonstrates the results of the optimized Sanger sequencing-based capillary electrophoresis (CE) assay, showing the presence of the DF508 mutation in a homozygous state. The consistent peaks across the region indicate the absence of the wild-type allele and confirm the homozygous nature of the mutation.



**Figure S 3: Electropherogram of a DF508 Heterozygous CFTR Sample:** This electropherogram displays the results of the optimized Sanger sequencing-based capillary electrophoresis (CE) assay, indicating the presence of the DF508 mutation in a heterozygous state. The overlapping peaks represent both the wild-type and mutant alleles, demonstrating the assay's effectiveness in detecting heterozygous mutations.